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☐ 1. Document ID: US 20030152586 A1

L1: Entry 1 of 5

File: PGPB

Aug 14, 2003

PGPUB-DOCUMENT-NUMBER: 20030152586

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030152586 A1

TITLE: Dietary supplements comprising growth media

PUBLICATION-DATE: August 14, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Paaske, Sverre	Molde		NO	
Endresen, Curt	Molde		NO	

US-CL-CURRENT: 424/195.16; 424/757, 424/766

## ABSTRACT:

The present invention relates to dietary supplements. In particular, the present invention provides compositions and methods utilizing dietary supplements comprising fungus and bacteria co-culture growth media. In preferred embodiments, the bacteria is Gluconacetobacter europaeus or Bacillus pumilus or a combination thereof and the fungus is Zygosaccharomyces. The microorganisms are preferably substantially removed from the growth media. In preferred embodiments, the growth media is dried down, lyophilized, or spray dried to provide a powder.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KNOW
Draw Desc	Image										

☐ 2. Document ID: US 20010041352 A1

L1: Entry 2 of 5

File: PGPB

Nov 15, 2001

PGPUB-DOCUMENT-NUMBER: 20010041352

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010041352 A1

TITLE: Method and kit for detecting microorganisms

PUBLICATION-DATE: November 15, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Reilly, Sean M.	East Stroudsburg	PA	US	
LaRocca, Paul T.	Sparta	NJ	US	
LaRocca, Mary Anne Kunz	Sparta	NJ	US	

US-CL-CURRENT: 435/34; 435/30

## ABSTRACT:

The specification relates to a method for the detection and collection of samples of microorganisms, such as mold spores, from the air and from surfaces utilizing a collection device that employs a substantially dry growth medium which is hydrated by a premeasured volume of liquid after microorganism collection on the dry growth medium has occurred. The specification also relates to a microorganism collection and detection kit comprising a microorganism collection device having a substrate and a layer of dry growth medium applied thereon, and a container of a premeasured volume of hydrating liquid.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KNOW
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☐ 3. Document ID: US 6498041 B1

L1: Entry 3 of 5

File: USPT

Dec 24, 2002

US-PAT-NO: 6498041

DOCUMENT-IDENTIFIER: US 6498041 B1

TITLE: Optical sensors for rapid, sensitive detection and quantitation of bacterial spores

DATE-ISSUED: December 24, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tabacco; Mary Beth	Belmont	MA		
Taylor; Laura C.	Waterford	NY		

US-CL-CURRENT: 436/172; 250/252.1, 250/361C, 250/361R, 250/362, 250/368, 435/287.1, 435/287.9, 435/288.7, 435/34, 435/39, 436/79

## ABSTRACT:

Bacterial spores can be rapidly and sensitively detected and quantified based upon molecular recognition of unique chemicals in the spore coat. Spores can be detected and assayed based upon the calcium concentration in bacterial spore coats using the calcium which is unique to the bacterial spores. Since spores contain a high concentration of calcium relative to other biological materials, fluorescent calcium-sensitive indicators are used to detect Ca.sup.+2 displaced from the spore case or free in solution or from the aerosol phase. Visibly excitable fluorescent dyes provide a sensitive and selective means to monitor changes in spore concentration and avoid difficulties associated with laser or UV-excitation.

9 Claims, 11 Drawing figures  
Exemplary Claim Number: 1

Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 4. Document ID: US 6090541 A

L1: Entry 4 of 5

File: USPT

Jul 18, 2000

US-PAT-NO: 6090541

DOCUMENT-IDENTIFIER: US 6090541 A

TITLE: Method and device for detecting bacteriophage using contrast-coloring and precipitable dyes

DATE-ISSUED: July 18, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wicks; James H.	Oakdale	MN		
Krejcarek; Gary E.	White Bear Lake	MN		
Williams; Michael G.	Vadnais Heights	MN		

US-CL-CURRENT: 435/5; 435/287.1, 435/288.4, 435/34

## ABSTRACT:

The use of a precipitable dye and a contrast-coloring dye together enhance visualization of plaques in confluent lawns of bacteria in bacteriophage and bacteria assays. A test sample suspected of containing a bacteriophage is combined with bacteria capable of replicating the bacteriophage, and applied to a water-proof surface to form a support for bacterial growth. The support is provided with the contrast-coloring dye and precipitable dye, and nutrients and salts capable of supporting growth of the bacteria. A lawn of bacteria is formed on the support, and plaques detected on the lawn indicate presence of the bacteriophage. The plaques contain a precipitate formed by enzymatic cleavage of the precipitable dye by an enzyme of the bacterial lawn. A similar procedure is used for detecting bacteria, except that a test sample suspected of containing a bacteria is combined with bacteriophage capable of replicating in the bacteria, and plaques detected indicate presence of the bacteria. The bacteriophage and bacteria assays are carried out with a disposable device containing at least one well having a water-proof surface and a depth of about at least 5 millimeters. A hydratable material containing the contrast-coloring dye and precipitable dye is positioned on the surface. The well may contain substantially vertical sides with a removable cover resting on top of the sides.

37 Claims, 1 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 5. Document ID: US 5958675 A

L1: Entry 5 of 5

File: USPT

Sep 28, 1999

US-PAT-NO: 5958675

DOCUMENT-IDENTIFIER: US 5958675 A

TITLE: Method for detecting bacteria using bacteriophage, contrast-coloring dye and precipitable dye

DATE-ISSUED: September 28, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wicks; James H.	Oakdale	MN		
Krejcarek; Gary E.	White Bear Lake	MN		
Williams; Michael G.	Vadnais Heights	MN		

US-CL-CURRENT: 435/5; 435/287.1, 435/288.4, 435/34

## ABSTRACT:

Bacteria are detected in a test sample by contacting the test sample with a bacteriophage that is capable of replicating in the bacteria, adding the resultant sample to a water-proof surface of a support for bacterial growth that contains a contrast-coloring dye and a precipitable dye, forming a bacterial lawn of a bacteria in which the bacteriophage can replicate on the support and detecting plaques on the bacterial lawn as an indication of the presence of the bacteria. The combination of precipitable dye and contrast-coloring dye improves visualization of plaques. A precipitate is formed in plaques by enzymatic cleavage of the precipitable dye by an enzyme of the bacterial lawn. A procedure for detecting bacteriophage is similar to that for detecting bacteria, except that a test sample suspected of containing bacteriophage is combined with bacteria in which the bacteriophage can replicate, and plaques detected indicate presence of the bacteriophage. The bacteria and bacteriophage detections are carried out with a disposable device containing at least one well having a water-proof surface and substantially vertical sides that extend at least 5 millimeters in height from the surface. A hydratable material containing the precipitable dye and the contrast-coloring dye is positioned on the water-proof surface. A removable cover rests on top of the sides of the well.

11 Claims, 1 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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Term	Documents
MICROORGANISMS	102078
MICROORGANISM	69486
FUNGI	58370
FUNGUS	29451
FUNGUSES	128
FUNGUS	29451
FUNGI	58370
FUNGUSES	128
DRY	790615
DRIES	23779
DRYS	850
((MICROORGANISMS OR FUNGI OR FUNGUS) AND DETECT\$ AND DRY GROWTH MEDIS).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	5

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